

the heat sink of this invention. No new matter has been added. Please refer to the Request for Approval of Drawing Changes concurrently submitted herewith.

IN THE ABSTRACT

C, Please replace the abstract as originally filed with the New Abstract attached on a separate sheet.

IN THE SPECIFICATION

Please replace the paragraph beginning on page 6, line 20 with the following:

Ans. D / > ~~As shown in Fig.2(a), the present embedded centrifugal cooling device includes a~~
heat sink 100, a blower or a centrifugal fan 200 and a cover 300. Among these, the heat
sink 100 includes a plurality of first cooling fins 110, a plurality of second cooling fins 130,
and an annular cavity 120 defined by the first cooling fins 110 and the second cooling fins
130, as shown in Fig.2(b). The centrifugal fan 200 is formed in the cavity 120 such that
the centrifugal fan 200 is embedded into the heat sink 100. It is noted that the shape of
the cavity 120 matches that of the centrifugal fan 200. In this manner, the cooling fins
110, 130 are distributed under and around the region extending from the central region to
the peripheral region of the centrifugal fan 200. The heat sink 100 is made of material
chosen from the group consisting of aluminum, aluminum alloy, copper, copper alloy and
the combination thereof.

[Please replace the paragraph beginning on page 7, line 6 with the following:]

↻
The cover 300 is formed with a plurality of inlets 310 as shown in Fig. 2(a). Thus, since the cover 300 includes the inlets 310, the coolant air from ambiance can be flowed in an axial direction of the centrifugal fan 200 into the heat sink 100. Still referring to Fig.2(a), the heat sink 100 is used to previously direct the heat concentrated in the central region of the heat-generating device to a larger heat dissipating surface (e.g. cooling fins). Then, using the centrifugal fan 200 to blow the heat sink 100 so as to direct the heat to ambiance. That is, the coolant air is flowed in a radial direction of the centrifugal fan 200 out of the heat sink 100. It is noted that since the cooling fins 110,130 are also distributed under the central region of the centrifugal fan 200, the heat mainly concentrated in the central region of the heat-generating device is dissipated effectively.

[Please replace the paragraph beginning on page 7, line 16 with the following:]

INS. D1 > ~~Further, the present embedded centrifugal cooling device includes a cover 300~~
formed over the heat sink 100 and the centrifugal fan 200. The cover 300 serves as an air seal to keep the present embedded centrifugal cooling device airtight substantially. In this manner, the coolant air generated by the centrifugal fan 200 can blow substantially the total length of the cooling fins 110,130 and then exhaust in the outer periphery of the cooling fins 110,130.